Flash Repeat

JOINT MESSAGEFORM

SECURITY CLASSIFICATION [redacted]

SPACE BELOW RESERVED FOR COMM [redacted]

VII

PRECEDENCE		TYPE MSG (Check)			ACCOUNTING SYMBOL	ORIG. OR REFERS TO	CLASSIFICATION OF REFERENCE
		BOOK	MULTI	SINGLE			
ACTION	[redacted]						
INFO	[redacted]						

FROM: [redacted]

TO: [redacted]

[redacted] 11-42-C [redacted]

[redacted]

1. [redacted]

2. [redacted] 10 55

2.a. [redacted]

2.b. [redacted] 237

2. [redacted]

3. [redacted]

SPECIAL INSTRUCTIONS

By authority of [redacted] 4 APR 62

CLASSIFICATION CHANGED TO [redacted]

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS

DATE [redacted] 20 TIME

MONTH [redacted] YEAR 1959

WRITER

SYMBOL [redacted]

TYPED NAME AND TITLE (Signature, if required) [redacted]

PHONE [redacted] NR. [redacted] PAGES 5

SECURITY CLASSIFICATION [redacted]

RELEASER

SIGNATURE [redacted]

TYPED (or stamped) NAME AND TITLE [redacted]

DD FORM 1 MAY 48 173 OBSOLETES DD FORM 173, 1 OCT 48, WHICH WILL BE USED UNTIL EXHAUSTED

Cy #6986 Copies WDGU-59-4-337-181

JOINT MESSAGEFORM CONTINUATION SHEET

[redacted]

FROM: CHIEF, [redacted] OFFICE, [redacted] AFB, CALIFORNIA

3.2. [redacted] AND ADAPTER. THE [redacted] ADAPTER MUST INTERMATE WITH CONNECTOR [redacted] AND MUST PROVIDE [redacted].

3.2. [redacted]. THE [redacted] MUST INCORPORATE THE FOLLOWING:

A. [redacted]

B. [redacted]

C. [redacted]

3.3. [redacted]. THE [redacted] MUST DEMONSTRATE ACCEPTABLE PERFORMANCE OF ITS COMPONENTS, ESPECIALLY BATTERIES AND [redacted].

3.4. [redacted]. THE [redacted] MUST DEMONSTRATE THE ABILITY OF ITS COMPONENTS TO:

A. [redacted]

B. [redacted]

C. [redacted]

SYMBOL: [redacted] | PAGE NO. 2 | NR OF PAGES 5 | [redacted] | INITIALS

DD FORM 1 MAY 64 173-1

[redacted]

FROM: CHIEF, AIRBORNE TRACKING OFFICE, VANDENBERG AFB, CALIFORNIA [redacted]

TRACKING, AIRBORNE RADAR, RECEIVER SYSTEM, TELEMETRY CONTROL SYSTEM, AND TELEMETRY CONTROL SYSTEM).

1.5. RECEIVING, RECORDING, TELEMETRY, TRACKING AND COMMAND SYSTEMS, ANTENNAS AND RADAR TRACKING AND COMMAND SYSTEMS WERE INTERFERENCE FREE DURING CRITICAL PERIODS OF THEIR INTENDED OPERATION TO:

a. ACCOMPLISH MISSION ALL RECEIVED VEHICLE FUNCTIONS (TIME AND SEQUENCED) AND RECEIVE ACTUAL SCIENCE TELEMETRY RECORDS OF THEIR PERFORMANCE.

b. TELEMETRY RECEIVE, ACT UPON, AND VERIFY ALL RECEIVED, REAL COMMANDS, AND ENSURE THAT NO FALSE COMMANDS ARE ACTED UPON.

c. BEEN THE CAPABILITY TO ALLOW THE FUNCTION D THERE TO INITIATE AND TERMINATE CONTROL POINT AT THE PROPER TIME.

2. DETERMINE ALL ELEMENTS OF ORBIT SUFFICIENTLY ACCURATE TO ASSURE ACQUISITION OF EACH SUCCESSIVE REVOLUTION AND TO ALLOW THE VEHICLE TIMER TO BE ADJUSTED WITH SUFFICIENT ACCURACY TO PROGRAM THE INDIVIDUAL VEHICLE FUNCTIONS.

3. EITHER OBJECTIVE TO ASSURE AN ORBIT WAS SATISFACTORILY ACHIEVED AS REGARDS THE ACQUISITION OF ALL TRACKING AIDS AT INITIAL, APOGEE AND WARN OF THE FIRST PASS.

4.1. PRIMARY OBJECTIVE OF DEMONSTRATION OF ONE CAPABILITY TO THE SATELLITE WAS DEMONSTRATED SATISFACTORILY BY THE SUCCESSFUL LAUNCH. SOME ONE FAILURE WERE EXPERIENCED, BUT ALL WERE CORRECTED.

4.2. PRIMARY OBJECTIVE OF THE FIRST STAGE VEHICLE TO PROVIDE SUFFICIENT BOOST SO AS TO ACHIEVE AN ORBIT WAS SATISFACTORILY DEMON-

SYMBOL: MDSHVR | PAGE NR 3 | NR OF PAGES 5 | [redacted] | INITIALS

DD FORM 1 MAY 55 173-1

WDSHV-SD-338-61

JOINT MESSAGEFORM - CONTINUATION SHEET

SECURITY [redacted]

FROM

[redacted] CHIEF, AIRBORNE FIELD OFFICE, VANDENBERG AFB, CALIF. [redacted]

OPERATED. MAIN ENGINE BURNING TIME WAS APPROXIMATELY 164.2 SECONDS WITH VEHICLE OUT OF ATTITUDE FOR 9.4 SECONDS LATER. THE MAIN ENGINE CUTOFF VELOCITY PARAMETER WAS NOT RECEIVED.

4.3. PRIMARY OBJECTIVE OF ACHIEVING APOGEE AT 5000 NAUTICAL MILES, CONSIDERED WAS SATISFACTORILY DEMONSTRATED BY SUCCESSFUL OPERATION OF TRACKING AIDS AT FIRST 5000 NAUTICAL MILES. SEPARATION OCCURRED 8 SECONDS AFTER MAIN ENGINE CUTOFF.

4.4. PRIMARY OBJECTIVE OF SATELLITE PROPULSION SYSTEM TO PROVIDE VACUUM IGNITION, TOTAL IMPULSE AND PROPELLANT UTILIZATION WAS SATISFACTORILY DEMONSTRATED BY SECOND STAGE IGNITION AFTER A COAST PERIOD OF APPROXIMATELY 5000 SECONDS AFTER SEPARATION. THE DESIRED BURNING TIME 120 SECONDS AS PROGRAMED, INDICATED SMOOTH PROPELLANT UTILIZATION. TOTAL IMPULSE DESIRED WAS OBTAINED AS INDICATED BY FIRST ORBIT DATA ON INDICATED TIME. THE DESIRED ORBITAL VELOCITY BASED ON RADAR DATA WAS 26,210 FT/SECOND.

4.5. THE ABILITY OF THE GUIDANCE SYSTEM TO INITIATE AND TERMINATE BURN AND CONTROL VEHICLE ORIENTATION FOR THIS LAUNCH IS UNKNOWN AT THIS TIME.

4.7. PRIMARY OBJECTIVE OF THE GROUND SPACE COMMUNICATIONS SYSTEM TO ACQUIRE, TRACK AND COMMAND AS REQUIRED, WAS DEMONSTRATED SATISFACTORILY. ACQUISITION WAS ACHIEVED WHEN REQUIRED WITH ALL PARAMETERS HOLDING OUT WITH THE EXCEPTION OF THE TM SIGNAL FOR THE

SYMBOL

RELEASED | PAGE NO. 4 | NR. OF PAGES 5 | SECURITY [redacted] | INITIALS [redacted]

DD FORM 1 MAY 64 173-1

[redacted]

JOINT MESSAGEFORM - CONTINUATION SHEET

SECURITY CLASSIFICATION [redacted]

FROM:

[illegible], ARMED FIELD OFFICE, VANDENBERG AFB, CALIF

[redacted]

[illegible] [illegible] [illegible], [illegible].

5.0. ALL [illegible] OBJECTIVES WERE ACHIEVED. DETAILS ARE DEPENDENT UPON [illegible] REDUCTION.

6.0. ALL [illegible] OBJECTIVES WERE ACHIEVED.

7.0. THE FOLLOWING ADDITIONAL INFORMATION IS SUBMITTED:

A. TLM-18 TRACKED FOR 102 SEC.

B. [illegible] RADAR WAS TRACKING FOR 14. SEC WHEN IT WENT [illegible].

ALL TIMING IS APPROXIMATE AND UNCONFIRMED UNTIL TAPES ARE READ. PAD DAMAGE WAS [illegible]. FURTHER DETAILED INFORMATION WILL BE PROVIDED IN THE FOLLOW-UP REPORT.

SYMBOL	PAGE NR	OF PAGES	SECURITY CLASSIFICATION	INITIALS
[illegible]	5	5	[redacted]	

DD FORM MAY 55 173-1

[illegible]